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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
09/928,868	08/13/2001	Bruno Heim	HEIM	7886

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EXAMINER

NGUYEN, HANH N

ART UNIT PAPER NUMBER

2834

DATE MAILED: 07/24/2003

Please find below and/or attached an Office communication concerning this application or proceeding.

Office Action Summary

Application No.

09/928,868

Applicant(s)

HEIM, BRUNO

Examiner

Nguyen N Hanh

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-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --

Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If the period for reply specified above is less than thirty (30) days, a reply within the statutory minimum of thirty (30) days will be considered timely.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133).
- Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

Status

- 1) ☒ Responsive to communication(s) filed on Election filed on 6/2/03.
- 2a) ☐ This action is **FINAL**. 2b) ☒ This action is non-final.
- 3) ☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

Disposition of Claims

- 4) ☒ Claim(s) 1-14 is/are pending in the application.
- 4a) Of the above claim(s) 11-14 is/are withdrawn from consideration.
- 5) ☐ Claim(s) _____ is/are allowed.
- 6) ☒ Claim(s) 1-10 is/are rejected.
- 7) ☐ Claim(s) _____ is/are objected to.
- 8) ☐ Claim(s) _____ are subject to restriction and/or election requirement.

Application Papers

- 9) ☐ The specification is objected to by the Examiner.
- 10) ☒ The drawing(s) filed on 13 August 2001 is/are: a) ☒ accepted or b) ☐ objected to by the Examiner.
- Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).
- 11) ☐ The proposed drawing correction filed on _____ is: a) ☐ approved b) ☐ disapproved by the Examiner.
- If approved, corrected drawings are required in reply to this Office action.
- 12) ☐ The oath or declaration is objected to by the Examiner.

Priority under 35 U.S.C. §§ 119 and 120

- 13) ☒ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
- a) ☒ All b) ☐ Some * c) ☐ None of:
1. ☒ Certified copies of the priority documents have been received.
2. ☐ Certified copies of the priority documents have been received in Application No. _____.
3. ☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).
- * See the attached detailed Office action for a list of the certified copies not received.
- 14) ☐ Acknowledgment is made of a claim for domestic priority under 35 U.S.C. § 119(e) (to a provisional application).
- a) ☐ The translation of the foreign language provisional application has been received.
- 15) ☐ Acknowledgment is made of a claim for domestic priority under 35 U.S.C. §§ 120 and/or 121.

Attachment(s)

- 1) ☐ Notice of References Cited (PTO-892)
- 2) ☐ Notice of Draftsperson's Patent Drawing Review (PTO-948)
- 3) ☐ Information Disclosure Statement(s) (PTO-1449) Paper No(s) _____.
- 4) ☐ Interview Summary (PTO-413) Paper No(s). _____.
- 5) ☐ Notice of Informal Patent Application (PTO-152)
- 6) ☐ Other: _____.

DETAILED ACTION

Remarks

1. Because the Examiner fails to set a shortened statutory period for reply in the Office Action mailed on 7/15/03, a Supplemental Action is made to correct the problem. Applicant's election without traverse of claims 1-10 has been acknowledged.

Claim Rejections - 35 USC § 103

The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negated by the manner in which the invention was made.

2. Claims 1,5,6,10 are rejected under 35 U.S.C. 103(a) as being unpatentable over Lykes in view of Adams.

Regarding claim 1, Lykes shows a stator for an electric drive; comprising: a stator housing (6 in Fig. 1) in the form of a stack of laminations, said housing having opposite winding end portions and a stator bore which is defined by an axis; a pair of tubular frame (11 and 12), one tubular frame abutting an axis-confronting inner surface of one winding end portion and the other tubular abutting an axis-confronting inner surface of the other winding end portion (Fig. 1 and 2); wherein one tubular frame in concert with an end face of the housing (10) bounds a cavity for receiving one winding end portion, and wherein the other tubular frame in concert with another end face of the housing bounds a cavity for receiving the other winding end portion, with each of the cavities being filled out with insulating casting material (Col. 5, lines 22-27). Lykes fails to show

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a cooling jacket arranged in circumferential direction of the stator housing and the tubular frame is made of insulation material.

However, Adams discloses an electric machine wherein the cooling jacket is arranged in circumferential direction of the stator housing (Fig. 1) for the purpose of removing heat from the motor.

Since Lykes and Adams are in the same field of endeavor, the purpose disclosed by Adams would have been recognized in the pertinent art of Lykes.

It would have been obvious at the time the invention was made to a person having an ordinary skill in the art to modify Lykes by arranging a cooling jacket in a circumferential direction of the stator housing as taught by Adams for the purpose of removing heat from the motor.

Moreover, it would have been obvious at the time the invention was made to a person having an ordinary skill in the art to modify Lykes by using insulation material to form the tubular frame for the purpose of electrical insulating, since it has been held to be within the general skill of a worker in the art to select a known material on the basis of its suitability for the intended use as a matter of obvious design choice. In re Leshin, 125 USPQ 416.

Regarding claim 6, it is noted that all limitations of the claimed invention has been fulfilled by Lykes and Adams as in claim 1.

Regarding claim 5 and 10, Lykes also shows a stator for an electric drive wherein each tubular insulator has a housing-distal end (the surfaces facing the coil end)

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provided with a reinforcement for providing a measure for a required filling height of the casting material during potting of the winding end portions.

3. Claims 2-4,7-9 are rejected under 35 U.S.C. 103(a) as being unpatentable over Lykes in view of Adams and further in view of Luenberger.

Regarding claim 2, Lykes and Adams disclose a stator wherein each tubular insulator includes a centering ring (annular flange¹⁹ as shown in Fig. 2 and Col. 3, lines 37-38) for radially centering the tubular insulator in relation to the stator bore of the housing. Lykes and Adams fail to show housing-confronting end face which confront the end face of the stator.

However, Luenberger discloses a tubular sleeve includes a housing-confronting end face which confronts the end face of the stator for the purpose of fixing the tubular sleeve to the stator.

Since Lykes, Adams and Luenberger are in the same field of endeavor, the purpose disclosed by Luenberger would have been recognized in the pertinent art of Lykes and Adams.

It would have been obvious at the time the invention was made to a person having an ordinary skill in the art to modify Lykes and Adams by making projection 19 confronting the end face of the stator as taught by Adams for the purpose of fixing the tubular sleeve to the stator.

Regarding claim 7, it is noted that all limitations of the claimed invention has been fulfilled by Lykes, Adams and Luenberger as in claim 2.

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Regarding claim 3 and 8, Lykes also shows a the centering ring (annual flange 19) is formed integrally with the tubular insulator.

Regarding claims 4 and 9, the structure disclosed by Lykes, modified by Adams and Luenberger discloses the invention except for showing a pair of circular cover slides which projects beyond the end faces of the stator housing. It is noted that the circular cover slide (20 in Fig. 1) which projects beyond the end faces of the stator housing is integrally formed as one piece. It would have been obvious to one having ordinary skill in the art at the time the invention was made to form a pair of circular cover slides which projects beyond the end faces of the stator housing, since it has been held that constructing a formerly integral structure in various elements involves only routine skill in the art. *Nerwin v. Erlichman*, 168 USPQ 177, 179.

Conclusion

9. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Hanh N Nguyen whose telephone number is (703) 305-3466. The examiner can normally be reached on Monday through Friday.

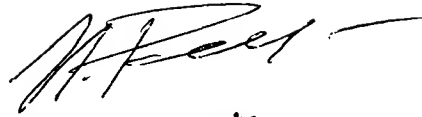
If attempts to reach the examiner by telephone are unsuccessful, the examiner 's supervisor, Nestor Ramirez can be reached on (703) 308-1371. The fax phone numbers for the organization where this application or proceeding is assigned are (703) 305-3431 for regular communications and (703) 305-3431 for After Final communications.

Any inquiry of a general nature or relating to the status of this application or proceeding should be directed to the receptionist whose telephone number is (703) 308-1782.

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HNN

July 21, 2003

A handwritten signature in black ink, appearing to read "N. Ponomarenko", with a long horizontal stroke extending to the right.

Nicholas Ponomarenko
Primary Examiner
Technology Center 2800